

## TWO-HOP TELEMETRY INTERFACE FOR MEDICAL DEVICE

### ABSTRACT

- This document discusses a system that includes an intermediary telemetry
- 5 interface device for communicating between a cardiac rhythm management system or other implantable medical device and a programmer or other remote device. One example provides an inductive near-field communication link between the telemetry interface and the implantable medical device, and a radio-frequency (RF) far-field communication link between the telemetry interface device and the remote device.
- 10 The telemetry interface device provides data buffering. In another example, the telemetry interface device includes a data processing module for compressing and/or decompressing data, or for extracting information from data. Such information extraction may include obtaining heart rate, interval, and/or depolarization morphology information from an electrogram signal received from the implantable
- 15 medical device.

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